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Curriel, Tyler
Morris, Cindy

<120> Dendritic Cell Binding Proteins and
Uses Thereof

<130> D6486PCT

<141> 2004-04-08

<150> US 60/461,474
<151> 2003-04-09

<160> 40

<210> 1
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<213> artificial sequence

<220>
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<223> peptide specific to myeloid dendritic cells

<400> 1
Tyr Pro Ile Val Asn Thr Ala Val Ala Thr His Met
5 10

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<211> 12
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<220>
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<223> peptide specific to myeloid dendritic cells

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<223> peptide specific to myeloid dendritic cells

<400> 3
Phe Tyr Pro Ser Tyr His Ser Thr Pro Gln Arg Pro
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Xaa = unknown at position 7

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Thr Ser Ile Gly Thr His Xaa Leu Ser Ala Ala Leu
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Thr Glu Thr Ser Trp Ser Met Phe Pro Leu His Leu
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<400> 6
Ala Pro His Leu Pro Tyr Leu Arg Gly Leu Asn Leu
5 10

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<223> peptide specific to myeloid dendritic cells

<400> 7
His His Asn Ser Asn His Arg Ser Phe His Tyr Leu
5 10

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<400> 8
Ser Tyr Ala Asn Leu Ile Arg Ser Ile Gln Pro Gly
5 10

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<400> 9
Thr Leu Val His Gln Trp Gln Pro Trp Pro Lys Ala
5 10

<210> 10
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<220>
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<400> 10
Ile Arg His Thr Thr Ser Gly Pro Pro Pro Ser Ser
5 10

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<220>
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<223> peptide specific to myeloid dendritic cells

<400> 11

Tyr Pro Gln Ala Leu Asn Thr Gln Pro Asp Trp Pro
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<220>

<221> PEPTIDE

<223> peptide specific to myeloid dendritic cells

<400> 12

Ala Tyr Tyr Lys Thr Ala Ser Leu Ala Pro Ala Glu
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<223> peptide specific to myeloid dendritic cells

<400> 13

Ser Gln Asn Ser Leu Tyr Ser Ser Lys Pro Val Arg
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<223> peptide specific to myeloid dendritic cells

<400> 14

Ser Leu Ser Leu Leu Thr Met Pro Gly Asn Ala Ser
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<223> peptide specific to myeloid dendritic cells

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Gln Ser Gln Thr Tyr Gln Thr His Ser Val Thr Met
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Glu Pro Ile His Pro Glu Thr Thr Phe Thr Asn Asn
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<400> 17
Glu Thr Pro Met Val His Trp Pro Ser Thr Ser Pro
5 10

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<400> 19
Asn Trp Trp Ser Asp Trp Val Met Leu Thr Gln Ser
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Gln Trp Pro Gln Tyr His Tyr Leu Arg Pro Thr Leu
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<400> 21
Ser Ile Thr Gln His Leu Gln Leu Lys Pro Leu Ala
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Xaa = unknown at position 9

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<220>

<221> PEPTIDE

<223> peptide specific to Langerhans dendritic cells

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Val	Ser	Ser	Pro	Pro	Arg	Val	Ser	Gly	Ile	Gly	Leu
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<210> 24

<211> 12

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<220>

<221> PEPTIDE

<223> peptide specific to Langerhans dendritic cells

<400> 24

His	Pro	Pro	Glu	Ile	Tyr	Ser	Pro	Pro	Arg	Tyr	Pro
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<220>

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<400> 25

His	Ser	Leu	Arg	Leu	Asp	Phe	Met	Ala	Pro	Leu	Thr
				5						10	

<210> 26

<211> 12

<212> PRT

<213> artificial sequence

<220>

<221> PEPTIDE

<223> peptide specific to Langerhans dendritic cells

<400> 26

Leu	Pro	Pro	Gly	Ala	Asp	Leu	Tyr	Phe	His	Pro	Ser
				5						10	

<210> 27

<211> 12

<212> PRT

<213> artificial sequence

<220>

<221> PEPTIDE

<223> peptide specific to Langerhans dendritic cells

<400> 27

Ile	Pro	Pro	Leu	Arg	Ile	Thr	Glu	Val	Thr	Pro	Thr
			5						10		

<210> 28

<211> 12

<212> PRT

<213> artificial sequence

<220>

<221> PEPTIDE

<223> peptide specific to Langerhans dendritic cells

<400> 28

Ile	Arg	His	Thr	Thr	Ser	Gly	Pro	Pro	Pro	Ser	Ser
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<210> 29

<211> 12

<212> PT

<213> artificial sequence

<220>

<221> PEPTIDE

<223> peptide specific to Langerhans dendritic cells

<400> 29

Val	Ser	Ser	Pro	Pro	Arg	Val	Ser	Gly	Ile	Gly	Leu
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<210> 30

<211> 12

<212> PRT

<220>

<221> PEPTIDE

<222> 10

<223> peptide specific to Langerhans dendritic cells;
Xaa = unknown at position 10

<400> 30

Lys	Ile	Met	Gln	Ser	Pro	Leu	Gln	His	Xaa	Ala	Pro
			5						10		

<210> 31

<211> 12

<212> PRT

<213> artificial sequence

<220>
<221> PEPTIDE
<222> 4
<223> peptide specific to Langerhans dendritic cells;
Xaa = unknown at position 4

<400> 31
Lys Val Trp Xaa Ile Asp Trp Pro Pro Pro Ala Tyr
5 10

<210> 32
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<220>
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<222> 10
<223> peptide specific to Langerhans dendritic cells;
Xaa = unknown at position 10

<400> 32
Ala Asp Arg Ser Arg Glu Leu Ala Leu Xaa Ile Phe
5 10

<210> 33
<211> 12
<212> PRT
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<220>
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<223> peptide specific to Langerhans dendritic cells
<400> 33
Ile Ile Pro Ser Thr Ala Asn Lys Ser Ile Ala Thr
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<210> 34
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<220>
<221> PEPTIDE
<223> peptide specific to Langerhans dendritic cells

<400> 34
Ser Asn Leu Ser Arg Thr Thr Leu Tyr Ser Gln Val
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<220>
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<400> 35
 His Ser Leu Arg Ser Asp Trp Val Ser Pro Asn Thr
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<220>
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 <223> peptide specific to Langerhans dendritic cells

<400> 36
 Ser Ser Thr Ile Asn Tyr Asn Arg Leu Asn Leu His
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<210> 37
 <211> 12
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<220>
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 <223> peptide specific to Langerhans dendritic cells

<400> 37
 Ser Leu His Arg Ser Ser Ser Leu Pro Ile Ser Thr
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<210> 38
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<220>
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 <223> 12-mer peptide used as negative control

<400> 38
 Glu Pro Ile His Pro Glu Thr Thr Phe Thr Asn Asn
 5 10

<210> 39
<211> 85
<212> DNA
<213> artificial sequence

<220>
<221> primer_binding
<223> forward primer to fusion protein of DC-
binding peptide #3 and immunodominant domains
of HER2/Neu

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catgccatgg agaagatctt tgggagcctg gcatttctgc cggagagctt 50
tgatggggac cctcgaggcg gaggtcgtag actgctgcag gaaac 85

<210> 40
<211> 80
<212> DNA
<213> artificial sequence

<220>
<221> primer_binding
<223> reverse primer to fusion protein of DC-
binding peptide #3 and immunodominant
domains of HER2/Neu

<400> 40
gccggtacct gggggtcctt ggccatgcgg gagaattcag acaccaactc 50
tccgccaccg ctaggtgtca gcgggtccac 80